

Work Order ID 148013

Friday, June 17, 2016 11:22:08 AM

148013

Page 1

Item ID: 646.4001

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AS350 Cable Cutter System

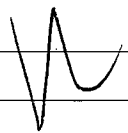
Start Date: 6/17/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 6/24/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan:  Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.01							
Quality Control									

JUN 27 2016

DAS
6
9-59

JUL 0 2016

DAS
6
9-59

JUL 0 5 2016

DAS
27
9-59

JUL 0 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Work Order ID 148013

Friday, June 17, 2016 11:22:08 AM

148013

Page 2

Item ID: 646.4001

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/24/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP 646.4001

Location: Fg 101DAS
28 DAS
9-89 27
9-89

JUL 08 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.02

Quality Control

16/7/12

Su 7/7/14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Friday, June 17, 2016 11:22:06 AM

Page 1

148013

646 4001

Start Date: 6/17/2016**Required Date:** 6/24/2016**Start Qty: 1.00**

Required Qty: 1.00

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP

REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0129 *600 0129* VHB TAPE 75935A651		Purchased	No			100	f	365.0000	8	8			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				CCK095				365					
				m127920				181					
				m131311				184					
600.0990 *600 0990* Magnabond 6398 Part A		Purchased	No			100	Each	23.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				CA002				10					
				M134167				10					
				CA2				12					
				M134249				12					
				PKG				1					
				M133800				1					

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER :							
Misidentified ☐	☐	Past Due								

Picklist Print

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

100 Each 23.0000 1 1

600 0991

MAGNOBOND 6398 PART B

DAS
6 28
9-89 9-89

Location Loc Qty Loc Code

CA002 10

m134167 10

CA2 12

m134249 12

PKG 1

m133800 1

DAS
27
9-89

12/2016

600.1012 Purchased No

100 Each 19.0000 1 1

600 1012

Sealant PR1425B2 (#654 sem)

DAS
6 28
9-89 9-89

Location Loc Qty Loc Code

cck017 18

m134249 8

m134634 10

cck018 1

m131364 1

DAS
27
9-89

10/2016

600.1013 Purchased No

100 Each 770.0000 5 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS
6 28
9-89 9-89

Location Loc Qty Loc Code

CCK095 770

m131145 770

100 Each

1.0000 1 1

DAS
27
9-89

646.2910 Manufactured No

646 2910

Deflector

DAS
6 28
9-89 9-89

Location Loc Qty Loc Code

CCK050 1

140085 1

DAS
27
9-89

JUL 05 2016

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Shop Packet Print

Page 2

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Friday, June 17, 2016 11:22:06 AM

Page 3

Work Order ID: 148013

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

148013
646 4001

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.3001 Manufactured No

100 Each 6.0000 1 1

646 3001
Lower Cutter Assembly

**

DAS

628
9-89

Location

Loc Qty

Loc Code

cck018

6

142637

2

142638

4

646.3110 Manufactured No

100 Each 23.0000 1 1

646 3110
Channel

**

DAS

6 28
9-89

Location

Loc Qty

Loc Code

cck020

23

140111

3

141015

20

646.3210 Manufactured No

100 Each 18.0000 1 1

646 3210
Support

**

DAS

6 28
9-89

Location

Loc Qty

Loc Code

cck020

18

141064

8

142469

10

646.3301 Manufactured No

100 Each 2.0000 1 1

646 3301
Upper Cutter Assy

**

DAS

6 28
9-89

Location

Loc Qty

Loc Code

cck018

2

141490

2

DAS
27
9-89

JUL 05 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
										QC / QA Coordinator Approval															
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
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Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :																							
Misidentified ☐	Past Due ☐																								

Picklist Print

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.3510

Manufactured No

100

Each

25.0000

1 1

646 3510

Strut

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

1

140061

1

CCK108A

24

140979

24

**

DAS
6 28
9-89 9-89

646.3511

Manufactured No

100

Each

24.0000

1 1

646 3511

Strut

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK108A

24

141499

24

**

DAS
6 28
9-89 9-89

646.3610

Manufactured No

100

Each

14.0000

1 1

646 3610

Filler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

14

141103

14

**

DAS
6 28
9-89 9-89

646.3710

Manufactured No

100

Each

24.0000

1 1

646 3710

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK002

24

140753

24

**

DAS
6 28
9-89 9-89

JUL 05 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval				
Description Work Order Deviation				Disposition				Completed By			
								Lead hand / Supervisor Approval Verification			
										QC / QA Coordinator Approval	
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : 											

Picklist Print

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Work Order ID: 148013

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

148013

646 4001

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.3711
646 3711
Clip

Manufactured No

100

Each

5.0000

1 1

**

DAS
28
DAS 9-89
6
9-89

Location

Loc Qty

Loc Code

cck105

5

120626

5

646.3712
646 3712
Clip

Manufactured No

100

Each

19.0000

1 1

**

DAS
28
DAS 9-89
6
9-89

Location

Loc Qty

Loc Code

cck105

19

140787

19

646.3713
646 3713
Gusset

Manufactured No

100

Each

23.0000

1 1

**

DAS
28
DAS 9-89
6
9-89

Location

Loc Qty

Loc Code

cck105

8

140084

8

CCK108A

15

140084

15

646.3714
646 3714
Gusset

Manufactured No

100

Each

10.0000

1 1

**

DAS
28
DAS 9-89
6
9-89

Location

Loc Qty

Loc Code

cck105

10

140048

10

DAS
27
9-89

JUL 05 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.3715
646 3715
Strut Doubler

Manufactured No

100 Each

9.0000

2 2

**

DAS 28
6 9-89

Location

Loc Qty

Loc Code

cck105

9

138365

9

2 1

**

DAS 28
6 9-89

DAS 27
9-89

646.3716
646 3716
Gauge Bracket

Manufactured No

100 Each

35.0000

1 1

**

Location

Loc Qty

Loc Code

cck105

35

140845

35

1 1

**

DAS 28
6 9-89

DAS 27
9-89

646.3717
646 3717
Doubler

Manufactured No

100 Each

6.0000

1 1

**

Location

Loc Qty

Loc Code

cck105

6

138175

6

1 1

**

DAS 28
6 9-89

DAS 27
9-89

646.3718
646 3718
Custom Washer

Manufactured No

100 Each

17.0000

2 2

**

Location

Loc Qty

Loc Code

cck105

17

140788

17

2 2

**

DAS 28
6 9-89

DAS 27
9-89

646.3719
646 3719
Doubler

Manufactured No

100 Each

19.0000

2 2

**

Location

Loc Qty

Loc Code

cck105

19

138311

19

2 2

JUL 05 2016

DAS 27
9-89

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.3810
646 3810
Bracket

DAS
27
9-89

Manufactured No

100

Each

23.0000

2 2

**

DAS 28
DAS 6
9-89

Location

Loc Qty

Loc Code

cck105

23

141041

13

141555

10

2

646.3811
646 3811
Radius Block

DAS
27
9-89

Manufactured No

100

Each

11.0000

1 1

**

DAS 28
DAS 6
9-89

Location

Loc Qty

Loc Code

CCK106

11

140895

11

2 2

**

646.3812
646 3812
Gusset Bracket

DAS
27
9-89

Manufactured No

100

Each

19.0000

2 2

**

DAS 28
DAS 6
9-89

Location

Loc Qty

Loc Code

CCK106

4

141418

4

CCK108A

15

140978

15

2 1

**

646.3813
646 3813
Strut Bracket

DAS
27
9-89

Manufactured No

100

Each

12.0000

1 1

**

DAS 28
DAS 6
9-89

Location

Loc Qty

Loc Code

CCK106

12

127453

1

140119

1

141019

10

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER :							
Misidentified ☐	☐	Past Due								

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.3910 Manufactured No

100 Each 48.0000 4 4

646 3910

Shim

DAS
27
9-89

8

Location

Loc Qty

Loc Code

CCK106

48

136478

1

140772

47

**

DAS

28

DAS 9-89

6

9-89

646.3911 Manufactured No

100 Each 44.0000 1 1

646 3911

Shim

DAS
27
9-89

7

Location

Loc Qty

Loc Code

cck104

11

126229

11

CCK106

33

126059

33

23

**

DAS

6

9-89

DAS

28

9-89

646.3912 Manufactured No

100 Each 54.0000 4 4

646 3912

Shim

Location

Loc Qty

Loc Code

CCK106

54

140238

54

**

DAS

6

9-89

DAS

28

9-89

646.3913 Manufactured No

100 Each 83.0000 1 1

646 3913

Shim

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

2

124108

2

**

DAS

28

9-89

9-89

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

646.9410
646 9410
Shim
DAS
27
9-89

Manufactured No

100 Each

92.0000

1 1

**

DAS DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK013

92

140671

92

647.0112
647 0112
Strut Bracket
DAS
27
9-89

Manufactured No

100 Each

70.0000

2 2

**

DAS DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK107

12

140968

12

CCK108A

58

142661

58

647.7703
647 7703
Strut Assembly
DAS
27
9-89

Manufactured No

100 Each

18.0000

2 2

**

DAS DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

CCK114

18

144420

6

144435

12

650.9201
650 9201
Eyelet Bracket Assembly
DAS
27
9-89

Manufactured No

100 Each

22.0000

2 2

**

DAS DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

ckk127

22

140179

2

141582

20

11 05 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No

100 Each 165.0000 10 10

AN3-11A

Bolt

**

DAS DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m134852

100

ST349

65

m134167

65

AN3-12A Purchased No

100 Each 97.0000 2 2

AN3-12A

Bolt

**

DAS DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST349

97

m133064

16

m134257

81

AN3-13A Purchased No

100 Each 63.0000 1 1

AN3-13A

Bolt

**

DAS DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

20

m127070

20

ST349

43

m134365

43

AN316C4R Purchased No

100 Each 41.0000 2 2

AN316C4R

NUT

**

DAS DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST331

41

m133234

33

m133523

8

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																						
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																																		
Description Work Order Deviation				Disposition			Completed By																																																																		
							Lead hand / Supervisor Approval Verification																																																																		
							QC / QA Coordinator Approval																																																																		
Root Cause				FAULT CATEGORY																																																																					
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OTHER :																																																																									

Picklist Print

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Work Order ID: 148013

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

148013
646 4001

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-3A Purchased No

100 Each 92.0000 4 4

AN3-3A

Bolt

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

92

m134738

25

m134848

16

m134962

51

AN3-4A Purchased No

100 Each 391.0000 10 10

AN3-4A

Bolt

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

350

m134955

350

ST350

41

m134502

41

AN3-5A Purchased No

100 Each 172.0000 2 2

AN3-5A

Bolt

**

104-135058

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

4

m133686

2

m134055

2

ST350

168

m134502

168

JUL 05 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-6A Purchased No

100 Each 318.0000 2 2

AN3-6A

Bolt

DAS
6 28
9-89 9-89

Location	Loc Qty	Loc Code
over003	250	
M134955	250	
ST349	68	
M134055	2	
M134654	2	
M134848	64	

DAS
27
9-89

AN44-5A Purchased No

100 Each 17.0000 2 2

AN44-5A

Eyebolt

DAS DAS
6 28
9-89 9-89

Location	Loc Qty	Loc Code
ST339	17	
m133990	2	
m134134	15	

DAS
27
9-89

AN4C7A Purchased No

100 Each 96.0000 2 2

AN4C7A

BOLT

DAS
DAS 28
6 9-89
9-89

Location	Loc Qty	Loc Code
OVER002	20	
m133523	20	
ST345	76	
m133990	16	
m134861	60	

DAS
27
9-89

JUL 05 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

Picklist Print

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

100

Each

15.0000

2

2

AN665-34R

Clevis

**

DAS
28

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

15

M134202

15

DAS
6
9-89

CCR264SS3-02

Purchased

No

100

Each

266.0000

36

36

CCR264SS3-02

Rivet, Cherry

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

266

M134134

266

30

CR3213-5-3

Purchased

No

100

Each

180.0000

14

14

CR3213-5-3

Cherry Rivet

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST319

180

m134142

180

14

MS20426AD5-7

Purchased

No

100

Each

967.0000

2

2

MS20426AD5-7

RIVET

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST311

967

M133922

967

2

MS20470AD5-5.5

Purchased

No

100

Each

950.0000

8

8

MS20470AD5-5 5

Rivet

**

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

950

m134063

950

8

DAS
6
9-89

JUL 05 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 148013

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

148013
646 4001

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6 Purchased No

100 Each 840.0000 8 8

MS20470AD5-6

RIVET

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

840

124089

840

100 Each

461.0000

3

3

MS20470AD5-7

Purchased No

MS20470AD5-7

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

461

123425

461

100 Each

33.0000

2

2

MS21042-08

MS21042L08

Purchased No

MS21042-08

USE MS21042L08

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

100 Each

22.0000

2

2

MS21042-3

MS21042L3

Purchased No

MS21042-3

Nut / use MS21042L3

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

22

M129682

22

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
6
9-89

JUL 05 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

100

Each

1,650.000

61

61

MS21042L3

Nut

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

32

m133790

32

GA

232

m133790

3

m134360

229

ST303

1386

m134039

12

m134634

2

m134754

572

m134943

800

61

DAS
6
9-89

MS21042L4

Purchased

No

100

Each

1,990.000

2

2

MS21042L4

Locknut

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

166

m133769

166

OVER007

1500

m134861

1000

m134955

500

ST303

230

m134762

230

ST305

94

m130922

94

2

JUL 05 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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Page 16

Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

100

Each

209.0000

18

18

MS21047-3

Nut Plate

**

DAS DAS

6 28

9-09 9-89

Location

Loc Qty

Loc Code

over005

100

m134955

100

ST301

109

m134166

59

m134676

50

DAS

27

9-89

MS24693-C278

Purchased

No

100

Each

15.0000

5

5

MS24693-C278

Screw

**

DAS DAS

6 28

9-09 9-89

Location

Loc Qty

Loc Code

ST287

15

m134257

15

DAS

27

9-89

MS24694-S51

Purchased

No

100

Each

143.0000

5

5

MS24694-S51

Screw

**

DAS DAS

6 28

9-09 9-89

Location

Loc Qty

Loc Code

ST284

143

m133990

143

DAS

27

9-89

MS24694-S54

Purchased

No

100

Each

111.0000

2

2

MS24694-S54

SCREW

**

DAS

28

DAS 9-89

Location

Loc Qty

Loc Code

over006

50

m134851

50

ST284

61

m134654

11

m134738

50

DAS

27

9-89

JUL 05 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
☐ Environment	☐ Design	☐ Doc/Data	☐ Equip/Tooling	☐ Handling/Pre	☐ Material	☐ Internal Transport	☐ Tribal Knowledge
☐ LOA	☐ Substation	☐ Past Expiry Date	☐ Misidentified	☐ No Re-verification	☐ Operator	☐ Offset/Setup	☐ Supplier
				☐ Training	☐ Use for Testing	☐ Poor Information	☐ Rushing
				☐ Product Improvement	☐ Process Improvement	☐ Manufacturing Process	☐ Past Due
				OTHER :			

Picklist Print

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Page 17

Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-S55

Purchased

No

100

Each

141.0000

3

3

MS24694-S55

Screw

DAS

DAS 28
6 9-89
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST283

141

m134376

141

MS27039-08-13

Purchased

No

100

Each

214.0000

2

2

MS27039-08-13

Screw

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

214

124326
m4067

210

4

MS27039-1-10

Purchased

No

100

Each

340.0000

2

2

MS27039-1-10

SCREW

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

14

m129541

14

ST280

285

m134676

285

MS27039-1-12

Purchased

No

100

Each

99.0000

6

6

MS27039-1-12

Screw

DAS
6
9-89 DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

50

m134294

50

ST280

49

m133988

49

JUL 05 2016

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Page 17

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																				
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Handling/Pre ☐	Training ☐																																																																						
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Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																				
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OTHER :																																																																							

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Work Order ID: 148013

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

148013

646 4001

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-16

Purchased

No

100

Each

368.0000

24

24

MS27039-1-16

Screw

**

DAS
6 DAS
9-89 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

300

m134294

50

m134502

250

ST2820

68

m134142

68

MS27039-1-19

Purchased

No

100

Each

132.0000

22

22

MS27039-1-19

Screw

**

DAS
6 DAS
9-89 28
9-89

135058

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

132

m134134

132

MS27039-1-20

Purchased

No

100

Each

128.0000

2

2

MS27039-1-20

Screw

**

DAS
6 DAS
9-89 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

128

124326

128

MS27039-1-21

Purchased

No

100

Each

299.0000

4

4

MS27039-1-21

Screw

**

DAS
6 DAS
9-89 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

100

m127904

100

ST280

199

m127904

199

JUL 05 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

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Friday, June 17, 2016 11:22:07 AM

Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

100

Each

1,712.000

138

NAS1149F0332P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

312

m133709

312

ST262

1400

m134257

37

m134676

1363

NAS1149F0363P

Purchased

No

100

Each

353.0000

NAS1149F0363P

WASHER

DAS
27
9-89

Location

Loc Qty

Loc Code

ST262

353

124555

353

NAS1149F0432P

Purchased

No

100

Each

1,738.000

NAS1149F0432P

WASHER

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M134955

1000

ST262

617

M134502

617

st268

121

M132677

121

JUL 05 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Friday, June 17, 2016 11:22:07 AM

Work Order ID: 148013

148013

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/17/2016

Required Date: 6/24/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

100

Each

1,863.000

4

4

NAS1149FN832P

Washer

DAS
28

Location

Loc Qty

Loc Code

GA

457

M133316

16

M133769

441

ST260a

1200

M134257

1200

ST263

206

M133709

206

DAS
6
9-89

JUL 05 2016

DAS
27
9-89

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
Root Cause				FAULT CATEGORY																					
Environment ☐	☐	No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐		Power Loss/Surge ☐		Positioned Wrong ☐															
Design ☐		Operator ☐		Bending ☐		Set-up ☐		Folio/Program ☐		Outside Dimensions ☐															
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐		Grain ☐		Over/Under tolerance ☐															
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐		Weld ☐		Part Incorrect ☐															
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐		Part Lost/Missing ☐															
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐		Out of Sequence ☐		Part Moved ☐															
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐		Off-set ☐		Drawing ☐															
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐		Mislabeled ☐		Finish ☐															
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐		Misread ☐															
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐		Misaligned/off center ☐		Turning Sequence ☐															
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____																					
Misidentified ☐		Past Due ☐																							

REFERENCE ONLY

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NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 76 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

5	5	5	78	601.3875	SCREW	MS2464554					
1	1	1	77	646.9410	SHIM	Δ					
	4	4	76	601.2764	WASHER	MS21499032P					
	2	2	75	601.2973	LOCKNUT	MS21042-08					
	2	2	74	601.2988	SCREW	MS22039-0813					
	2	2	73	601.2943	LOCKNUT	MS21042-3					
	2	2	72	601.3128	NUT	AN312CAR					
	2	2	71	601.3209	LOCKNUT	MS21042-4					
	4	4	70	601.2638	WASHER	MS214990432P					
	2	2	69	601.2669	BOLT	AN402A					
	2	2	68	601.3119	CLEVIS	AN446-3AR					
	2	2	67	601.3121	EYE BOLT	AN446-5A					
		2	66	650.9201	EYE BRACKET ASSY						
	REF	REF	65	647.5701	GPS MOUNT KIT	Δ					
		2	64	601.3151	WASHER	MS214990363P					
		2	63	601.2911	SCREW	MS24645550					
	24	24	62	601.2637	SCREW	MS22039-1-16					
2	2	2	61	601.2763	BOLT	AN3-12A					
	1	1	60	646.3913	SHIM						
	4	4	59	646.3912	SHIM						
	1	1	58	646.3911	SHIM						
	4	4	57	646.3910	SHIM						
	5	5	56	600.1013	PRIMER						
	8 FT	8 FT	55	600.0129	VHB TAPE						
	1	1	54	600.1012	SEALANT	PR-102E CLASS B					
	1	1	53	600.0591	MAGNOBOND 639B PART B	Δ					
	1	1	52	600.0590	MAGNOBOND 639B PART A	Δ					
6	10	10	51	601.2826	BOLT	AN3-11A					
		2	50	646.3814	WIPER BRACKET						
		2	49	601.2910	SCREW	MS22039-1-16					
	2	2	48	601.1365	SCREW	MS22039-1-10					
	2	2	47	646.3719	DOUBLER						
	2	2	46	646.3718	CUSTOM WASHER						
	1	1	45	646.3717	DOUBLER						
	22	22	44	601.1948	SCREW	MS22039-1-19					
	2	2	43	601.1952	SCREW	MS22039-1-20					
	4	4	42	601.1956	SCREW	MS22039-1-21					
4006	4005	4004	4003	4002	4001	4000	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 02119, 02381, 02719 & 02745	02/06/2010	P. BRAVO
B	INCORPORATED ECN 02341, 02378 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECN 02076	09/07/2014	P. BRAVO

		2		2	41	601.2829	SCREW	MS2464554	
		2		2	40	601.2831	RIVET	MS20426A05-7	
		1		1	39	646.3716	GAUGE BRACKET		
		6		6	38	601.1953	SCREW	MS22039-1-12	
	2			2	37	646.3715	STRUT DOUBLER		
				2	36	601.2824	BOLT	AN3-5A	
12	36			36	35	601.2277	RIVET	CC074455-0-02	
6	18			18	34	600.0795	NUTPLATE	MS21047-3	
3	3			3	33	601.2565	RIVET	MS20470A05-7	
1	1			1	32	646.3813	STRUT BRACKET		
4	4			4	31	601.2822	BOLT	AN3-3A	
2	2			2	30	646.3812	GUSSET BRACKET		
8	8			8	29	601.2564	RIVET	MS20470A05-6	
1	1			1	28	646.3714	GUSSET		
	1	1		1	27	646.3610	FILLER		
	3	3		3	26	601.2830	SCREW	MS2464555	
	2	2		2	25	601.2825	BOLT	AN3-6A	
	1	1		1	24	646.3811	RADIUS BLOCK		
		1		1	23	646.3712	CLIP		
	1			1	22	646.3711	CLIP		
8	8			8	21	601.2832	RIVET	MS20470A05-5	
14	14			14	20	601.2020	RIVET	CR3215-5-3	
4	6	4	6	10	19	601.2823	BOLT	AN3-4A	
	1	1		1	18	601.2827	BOLT	AN3-13A	
	5	5		5	17	601.2912	SCREW	MS2464551	
1	1			1	16	646.3713	GUSSET		
1	1			1	15	646.3210	SUPPORT		
	1	1		1	14	646.3710	DOUBLER		
	1	1		1	13	646.3110	CHANNEL		
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042-10
16	32	18	120	16	144	11	601.1607	WASHER	MS21499032P
				1		10	646.3410	LH WIPER DEFLECTOR	
				1		9	646.3411	RH WIPER DEFLECTOR	
				2	2	8	647.7703	STRUT ASSY	
				2	2	7	647.0112	STRUT BRACKET	
	1	1		1	6		646.3511	STRUT	
	1	1		1	5		646.3510	STRUT	
2	2			2	4		646.3810	BRACKET	
				1	3		646.2910	DEFLECTOR	
	1	1		1	2		646.3001	LOWER CUTTER ASSY	
		1		1	1		646.3301	UPPER CUTTER ASSY	
X							646.4006	LOWER CUTTER FIXED PROVISIONS	
	K						646.4005	LOWER CUTTER REMOVABLE PROVISIONS	
		X					646.4004	FIXED PROVISIONS KIT	
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS	
				X			646.4002	AS350 WIPER DEFLECTOR KIT	
					X		646.4001	AS350 CABLE CUTTERS KIT	
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	SPEC.

QTY	DESCRIPTION	MATL	SPEC.
4006	4005	4004	4003
4002	4001	FIND #	PART #
NEXT ASSY (S)			
DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300 APICAL INDUSTRIES, INC. DBA DART AEROSPACE			
ASS350 CABLE CUTTERS KIT SCALE: NONE SHEET 1 OF 3			

148013

Friday, June 17, 2016 11:22:08 AM

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 6/17/2016 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 6/24/2016 **Req'd Qty:** 1.00 ***1***

Customer:



Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

[illegible]